

**What is claimed is:**

1. An AC adapter power supply apparatus comprising a line for supplying a DC voltage converted by an AC-DC conversion circuit 11 to a DC output circuit 23, a battery switch circuit 15 for supplying the DC voltage converted by the AC-DC conversion circuit 11 to a battery 14 via a charging circuit 13 and controlling contact and separation of the battery 14 and a DC-DC conversion circuit 16 from the battery 14, and a line for supplying to the DC output circuit 23 via the DC-DC conversion circuit 16 for increasing and decreasing the voltage, wherein a DC output detection circuit 17 is connected to an output side of the AC-DC conversion circuit 11, and the output side of the DC output detection circuit 17 is connected to an apparatus status output circuit 22 for outputting a status monitoring signal to the outside and to the battery switch circuit 15, and then an output voltage changeover switch 19 for switching a set-up output voltage is connected to the AC-DC conversion circuit 11 and the DC-DC conversion circuit 16.

2. The AC adapter power supply apparatus according to claim 1, wherein the battery 14 is connected to a battery voltage detection circuit 18 for detecting a voltage of the battery 14, and the output side of the battery voltage detection circuit 18 is connected to the apparatus status output circuit 22 for outputting the status monitoring signal to the outside and to the battery switch circuit 15 for controlling the contact and separation of the battery 14 and the DC-DC conversion circuit 16.

3. The AC adapter power supply apparatus according to claim 1, wherein the charging circuit 13 is connected to a charging on-off switch 20 for outputting a signal which connects the AC-DC conversion circuit 11 to the battery 14 when the battery 14 is a secondary battery and separates the AC-DC

conversion circuit 11 from the battery 14 when the battery 14 is a primary battery.

4. The AC adapter power supply apparatus according to claim 1, wherein the battery switch circuit 15 is connected to a cold start switch 21 for connecting the battery 14 to the DC-DC conversion circuit 16 for the sake of connecting the battery 14 to the DC output circuit 23 when there is no AC input and interrupting the battery 14 from the DC output circuit 23 when the AC input is normally supplied from the AC-DC conversion circuit 11 to the DC output circuit 23.